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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,970	09/15/2006	Lynn Choi	1751-418	2730
ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W.			EXAMINER	
			PARTHASARATHY, PRAMILA	
SUITE 800 WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER	
			2436	
			NOTIFICATION DATE	DELIVERY MODE
			02/03/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTO-PAT-Email@rfem.com

	Application No.	Applicant(s)			
	10/598,970	CHOI ET AL.			
Office Action Summary	Examiner	Art Unit			
	PRAMILA PARTHASARATHY	2436			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
<ul> <li>1) Responsive to communication(s) filed on <u>04 Seconds</u></li> <li>2a) This action is <b>FINAL</b>. 2b) This</li> <li>3) Since this application is in condition for alloward</li> </ul>	action is non-final.	secution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 9-11,13-15,17 and 18 is/are rejected.</li> <li>7)  Claim(s) 12 and 16 is/are objected to.</li> <li>8)  Claim(s) 1-8 are subject to restriction and/or el</li> </ul>	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ition is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)	_				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)         Paper No(s)/Mail Date <u>9/15/2006</u>.     </li> </ol>	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	nte			

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#### **DETAILED ACTION**

#### Election/Restrictions

**1.** Applicant's election without traverse of claims 9 - 18 in the reply filed on 9/4/2009 is acknowledged.

## **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

3. An initialed and dated copy of Applicant's IDS form 1449 is attached to the Office action.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 9 – 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Independent claims 9 and 13 recite "recovering an operation state of a processor from a buffer overflow attack …", however do not show how that recovering is achieved. Dependent claims are rejected by the virtue of their dependency from the above rejected parent claims.

Examiner suggests amending the independent claims with the subject matter that is disclosed in dependent claim 12 and/or 16.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 5. Claims 9 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Johnson et al. (Publication 2003/0172293).
- **6. As per** Claims 9 and 13, Johnson teaches "(a) detecting whether a buffer overflow attack is made on any write operation while storing write operations that are potential targets of buffer overflow attacks in a predetermined location instead of an original destination to store write operations (Summary and paragraph [0048 0049]); (b) storing the contents stored in the predetermined location at a predetermined interval in the original destination for storing write operations if no buffer overflow attack is detected and discarding unsafe write operations subsequent to a buffer overflow attack if a buffer overflow attack is detected (paragraph [0049 0051]); and (c) ignoring the unsafe write operations subsequent to the buffer overflow attack if a buffer overflow attack is detected (paragraph [0050 0051])".
- 7. **As per** Claims 10 and 14, Johnson teaches "wherein, if a buffer overflow attack is detected, write operations stored before the buffer overflow attack is made are stored in the original destination for storing the write operations (paragraph [0053])".

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**8. As per** Claims 11 and 15, Johnson teaches "if there are second sets of consecutive write operations in contiguous regions of the original destination for storing write operations, the write operations are stored in the predetermined location, and otherwise the write operations are written to the original destination (paragraph [0049])".

**9. As per** Claims 17 and 18, Johnson teaches "wherein the predetermined storage unit in which data are stored by the storing unit is a FIFO (first-in-first-out) device (paragraph [0053])".

# Allowable Subject Matter

**10.** Claims 12 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Examiner's Note: Please note change of Examiner with this Application.

Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as

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potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO Form 892.

Applicant is urged to consider the references. However, the references should be evaluated by what they suggest to one versed in the art, rather than by their specific disclosure. If applicants are aware of any better prior art than those are cited, they are required to bring the prior art to the attention of the examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PRAMILA PARTHASARATHY whose telephone number is (571)272-3866. The examiner can normally be reached on 8:00a.m. to 5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Pramila Parthasarathy/ Primary Examiner, Art Unit 2436